

ABSTRACT

Four antenna units arranged adjacent to each other are respectively connected to switches, and are connected to load impedance elements via the switches, or connected to an output terminal and a comparator via a switch. Another ends of the load impedance elements are grounded. The comparator judges which antenna unit receives a radio signal having the maximum signal level among the antenna units. A controller controls the switches and the switch so that the antenna unit that receives the radio communication signal having the maximum signal level is connected to the output terminal and the other antenna units are connected to the load impedance elements.